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Massachusetts

the 1990s, the number of people in the UK who are employed in the public sector has increased by 1.5 million, from 2.5 million in 1980 to 4 million in 1995. The public sector has become a major employer in the UK, and its growth has been a major factor in the overall growth of the economy.

The public sector has also become a major employer of women. In 1980, women made up 40% of the public sector workforce, and by 1995, this figure had risen to 50%. This increase in the number of women in the public sector has been a major factor in the overall increase in the number of women in the workforce.

The public sector has also become a major employer of people with disabilities. In 1980, people with disabilities made up 1% of the public sector workforce, and by 1995, this figure had risen to 3%. This increase in the number of people with disabilities in the public sector has been a major factor in the overall increase in the number of people with disabilities in the workforce.

The public sector has also become a major employer of people from ethnic minorities. In 1980, people from ethnic minorities made up 1% of the public sector workforce, and by 1995, this figure had risen to 3%. This increase in the number of people from ethnic minorities in the public sector has been a major factor in the overall increase in the number of people from ethnic minorities in the workforce.

The public sector has also become a major employer of people from the lower social classes. In 1980, people from the lower social classes made up 1% of the public sector workforce, and by 1995, this figure had risen to 3%. This increase in the number of people from the lower social classes in the public sector has been a major factor in the overall increase in the number of people from the lower social classes in the workforce.

The public sector has also become a major employer of people from the lower income groups. In 1980, people from the lower income groups made up 1% of the public sector workforce, and by 1995, this figure had risen to 3%. This increase in the number of people from the lower income groups in the public sector has been a major factor in the overall increase in the number of people from the lower income groups in the workforce.

The public sector has also become a major employer of people from the lower education levels. In 1980, people from the lower education levels made up 1% of the public sector workforce, and by 1995, this figure had risen to 3%. This increase in the number of people from the lower education levels in the public sector has been a major factor in the overall increase in the number of people from the lower education levels in the workforce.

The public sector has also become a major employer of people from the lower health status. In 1980, people from the lower health status made up 1% of the public sector workforce, and by 1995, this figure had risen to 3%. This increase in the number of people from the lower health status in the public sector has been a major factor in the overall increase in the number of people from the lower health status in the workforce.



# 1. Periodicals - Bibl.







Massachusetts Institute of Technology.

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A LIST  
OF THE  
PERIODICALS AND SOCIETY PUBLICATIONS  
IN THE  
LIBRARIES OF THE INSTITUTE.

COMPILED BY  
CLEMENT W. ANDREWS, A.M.  
<sup>h</sup>  
Librarian.

*SECOND EDITION.*

MAY, 1893.

NEW YORK  
PUBLIC  
LIBRARY

CAMBRIDGE:  
JOHN WILSON AND SON.  
University Press.

1893.

## NOTE.

THE following list contains all the periodicals of which the files are preserved for reference. In an Appendix are given the titles of all others currently received at the Institute. The list includes annuals, but not official reports nor serial bulletins, unless the latter are paged and numbered in volumes.

Publications of societies, except those having a distinctive title, are entered under the first word, not an article, of the name of the society, *as it appears on the publication*. Periodicals are entered under the first word, not an article or a Christian name, of the latest title. A few references from recent titles and editors' names have been given. The place of publication has been given in all cases except those in which it is evident from the title itself, and those in which it changes frequently.

The Libraries of the Institute, their location, and the abbreviations used to designate them are as follows:—

Gen. . .	General Library . . . . .	15	Rogers Building.
Eng. . .	Engineering Library . . . . .	40	Engineering Building.
Mg. . .	Mining and Metallurgical Library . . . . .	9	Rogers Building.
Arch. . .	Architectural Library . . . . .	32	Architectural Building.
Chem. . .	Chemical Library . . . . .	43	Walker Building.
Biol. . .	Biological Library . . . . .	13	Rogers Building.
Phys.. .	Physical Library . . . . .	14	Walker Building.
G. S. . .	Library of the Department of General Studies . . . . .	40	Rogers Building.
Geol. . .	Geological Library . . . . .	14	Rogers Building.
M. C. R..	Margaret Cheney Reading Room . . . . .	37	Walker Building.
L. D. . .	Lowell School of Design . . . . .		Garrison Street Building.

+ signifies that the set is complete from the preceding date or volume.

|| signifies that publication ceased at the date given.

Numbers in full-faced type are the numbers of volumes.

Numbers in parentheses are the numbers of series.

w. following numbers in brackets indicates that these volumes or years are wanting in the set.

WASSEL



## LIST OF PERIODICALS.

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- Abstracts** of Sanitary Reports. Washington. Biol. **5**, 1891 (for 1890)+  
**Académie des Sciences.** Comptes rendus hebdomadaires des séances.  
 Paris. Phys. **74**, 1872+  
**Academy.** London. G. S. **1**, 1869-70; **2**, 1870-1; **4**, 1872; **12**, 1877-  
**14**, 1878; **33**, 1888+  
**Academy Architecture and Annual Architectural Review.** London.  
 Arch. **2**, 1890+  
**Academy of Natural Sciences.** Proceedings. Philadelphia. Gen. **1**,  
 1841-3-**33**, 1881.  
**Agricultural Science.** State College, Pa. Chem. **7**, 1893+  
**Akademie der Wissenschaften zu München.** Sitzungsberichte der mathe-  
 matisch-physikalischen Classe. Chem. **1**, 1871-**15**, 1885.  
**Alabama Industrial and Scientific Society.** Proceedings. Gen. **1**, 1891+  
**Allgemeines Journal der Chemie.** Scherer. Leipzig; Berlin. Chem.  
**1**, 1798-**10**, 1803||  
**Allgemeines Statistisches Archiv.** Tübingen. G. S. **1**, 1890+  
**American Academy of Arts and Sciences.** Memoirs. Boston. Phys.  
 (New series). **1**, 1833+ [**2**, **3**, **6** w.]  
**American Academy of Arts and Sciences.** Proceedings. Boston. Phys.  
**1**, 1846-8+ Chem. **7**, 1865-**21**, 1885.  
**American Academy of Medicine.** Bulletin. Easton. Biol. **1**, 1891+  
**American Academy of Political and Social Science.** Annals. Philadel-  
 phia. G. S. **1**, 1890-1+  
**American Almanac.** Boston. G. S. **1**, 1830-**30**, 1859.  
**American Analyst.** New York. Chem. **2**, 1886+  
**American Annual of Photography.** New York. Phys. 1889+  
**American Antiquarian and Oriental Journal.** Avon, Ill. Arch. **15**,  
 1893+  
**American Antiquarian Society.** Proceedings. Worcester. G. S. (New  
 series) **1**, 1880-1+  
**American Architect and Building News.** Boston. Arch. **1**, 1876+  
**American Association for the Advancement of Science.** Proceedings.  
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**35**, 1886. Eng. **1**, 1848-**30**, 1881. M. C. R. **22**, 1873-**32**, 1883.  
**American Chemical Journal.** Baltimore. Chem. **1**, 1879+  
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- American Economic Association. Publications. G. S. **1**, 1886-7+  
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 American Gas Light Journal. New York. Chem. **30**, 1889+  
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 American Historical Association. Papers. New York. G. S. **1**, 1885-5, 1891|| Annual Report. Washington. **1**, 1889+  
 American Institute of Electrical Engineers. Transactions. New York. Phys. **1**, 1884+  
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 American Iron and Steel Association. Bulletin. Philadelphia. Mg. **19**, 1885+  
 American Journal of Archæology and of the History of the Fine Arts. Boston; Princeton. Arch. **8**, 1893+  
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 American Journal of Otology. New York; Boston. Phys. **2**, 1880-4, 1882||  
 American Journal of Science. Silliman. New Haven. Phys. (1) **1**, 1818+ Geol. (1) **36**, 1839+ Chem. (1) **1**, 1818-27, 1835; (3) **1**, 1871-32, 1886.  
 American Machinist. New York. Eng. **1**, 1878+  
 American Meteorological Journal. Boston. Phys. **10**, 1893-4+  
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 American Public Health Association. Public Health Papers and Reports. Concord. Chem. **1**, 1873+ Eng. **3**, 1875-6-7, 1881.  
 American Railway Association. Proceedings of the Meeting. Eng. 1886+  
 American Railway Master Mechanics' Association. Report of the Proceedings of the Annual Convention. Eng. **1**, 1868-20, 1887.  
 American Society of Church History. Papers. New York. G. S. **1**, 1889+  
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 American Society of Railroad Superintendents. Proceedings. Eng. **7**, 1884+  
 American Statistical Association. Quarterly Publications. Boston. G. S. **1**, 1888-9+  
 American Street-Railway Association. Verbatim Report of the Annual Meeting. Brooklyn. Eng. **1**, 1882; **3**, 1884+  
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- Analyst. London. Chem. **1**, 1877+
- Annalen der Chemie und Pharmacie. See Liebig's (Justus) Annalen der Chemie.
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- Annalen der Physik und Chemie. Poggendorff; Wiedemann. Berlin. Chem. **1**, 1824—(Neue Folge) **17**, 1882. Phys. **160**, 1877+
- Annalen für Gewerbe und Bauwesen. Glaser. Berlin. Eng. **18**, 1886+
- Annales de Chimie et de Physique. Paris. Chem. **1**, 1879+ [1st series incomplete; (3) **36**, (4) **23**, **28-30**, (5) **1-3** w.]
- Annales de l'École libre des sciences politiques. Paris. G. S. **1**, 1886—**7**, 1892.
- Annales de l'Institut Pasteur. Paris. Biol. **1**, 1887+
- Annales de micrographie. Paris. Biol. **1**, 1888-9+
- Annales des Mines. Paris. Mg. (3) **1**, 1832+ [(6) **19**, **20** w.]
- Annales des Ponts et Chaussées. Paris. Eng. (2) **7-8**, 1844; (5) **1**, 1871+
- Annales du Conservatoire des Arts et Métiers. Paris. Eng. **9-10**, 1870-3; (2) **1**, 1889+
- Annales du Génie Civil. Paris. Eng. (2) **1**, 1872—**9**, 1880||
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- Annals of the Astronomical Observatory of Harvard College. Cambridge. Phys. **1**, 1856+
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- Annuaire de l'Observatoire municipale de Montsouris. Paris. Chem. 1878+
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- Atlantic Monthly. Boston. G. S. **1**, 1857-8+
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- Biologisches Centralblatt. Erlangen. Biol. **4**, 1884-5+
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- Boston Journal of Natural History. Gen. **1**, 1834-7—**4**, 1843-4; **7**, 1859-63||
- Boston Medical and Surgical Journal. Biol. **126**, 1892+
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- Boston Society of Natural History. Proceedings. Gen. **1**, 1841-4+
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- Botanische Zeitung. Leipzig. Biol. **42**, 1884+
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- Bradstreet's. New York. G. S. **15**, 1887+
- Brick Roadways. Chicago. Eng. **1**, 1891-2+
- Brickbuilder. Boston. Arch. **1**, 1892+
- Brickmaker. Chicago. Eng. **10**, 1891-2+
- British Architect. London and Manchester. Arch. 1888+
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- British Journal of Photography. London. Phys. **37**, 1890+
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- Builder. London. Arch. **1**, 1843—**20**, 1862; **26**, 1868—**34**, 1876; **48**, 1883+

**Building.** See *Architecture and Building*.

**Building News and Engineering Journal.** London. Arch. 1888+

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**Canadian Society of Civil Engineers.** Transactions. Montreal. Eng. **1**, 1887+

**Cassier's Magazine.** New York. Eng. **1**, 1891—2+

**Centralblatt der Bauverwaltung.** Berlin. Eng. **10**, 1890+

**Centralblatt für allgemeine Gesundheitspflege.** Bonn. Chem. **1**, 1882+

**Centralblatt für Bakteriologie und Parasitenkunde.** Jena. Biol. **1**, 1887+

**Centralblatt für Elektrotechnik.** München. Phys. **1**, 1879—**12**, 1889||

**Centralblatt für Physiologie.** Leipzig. Biol. **1**, 1887—8+

**Charities Review.** New York. G. S. **1**, 1891—2+

**Charity Organisation Review.** London. G. S. **1**, 1885+

**Chautauquan.** Meadville. G. S. **8**, 1887—8+ [9, 11 15 w.]

**Chemical Gazette.** London. Chem. **1**, 1842—**3** 7, 1849.

**Chemical News and Journal of Physical Science.** London. Chem. **1**, 1860+ M. C. R. **22**, 1870—**50**, 1884.

**Chemical Society.** Journal. London. Chem. **2**, 1850+ [3, 4, 6—9, 13, 14 w.]

**Chemical Society of Washington.** Bulletin. Chem. **1**, 1884—6+

**Chemiker-Zeitung.** Cöthen. Chem. **4**, 1880+

**Chemische (Die) Industrie.** Berlin. Chem. **8**, 1885—**15**, 1892.

**Chemisches Central-Blatt.** Leipzig. Chem. **1**, 1830+ [1, 2, 5, (3) 17 w.]

**Chemisches Repertorium.** See *Chemiker-Zeitung*.

**Chemisch-technische Mittheilungen der neuesten Zeit.** Elsner. Halle. Chem. **1**, 1840—**33**, 1885: 6||

**Chronique (La) des arts et de la curiosité.** Supplément à la Gazette des Beaux-Arts. Paris. Arch. 1893+

**Civilingenieur (Der).** Leipzig. Eng. (Neue Folge) **17**, 1871—**26**, 1880; **33**, 1887+

**Colliery Engineer.** Scranton. Mg. **5**, 1885+

**Colliery Guardian.** London. Mg. **21**, 1871 **24**, 1872; **49**, 1885+

**Colorado Scientific Society.** Proceedings. Denver. Mg. **1**, 1883 4+

**Comité international des Poids et Mesures.** Procès-Verbaux des séances. Paris. Phys. **1**, 1875—6—1885.

**Commercial & Financial Chronicle and Hunt's Merchants' Magazine.** New York. G. S. **56**, 1893+

**Compass.** New York. Eng. **1**, 1891 2+

**Comptes rendus.** See *Académie des Sciences*.

**Congressional Globe.** Washington. G. S. 1833—4—1872 3||

**Congressional Record.** Washington. G. S. **1**, 1873+

**Contemporary Review.** London. G. S. **1** 3, 1866; **16**, 1871+

**Co-operative News and Journal of Associated Industry.** Manchester. G. S. **22**, 1891+

**Cosmos.** Paris. Gen. **12**, 1858—**19**, 1861.

**Critic.** New York. G. S. (New series) **9**, 1888+

**Croquis d'architecture.** Paris. Arch. **1**, 1866—7 (3) **2**, 1888—91||



- Deutsche Bauzeitung.** Berlin. Eng. **20**, 1886; **25**, 1891+
- Deutsche chemische Gesellschaft.** Berichte. Berlin. Chem. **1**, 1868+
- Deutsche Vierteljahrsschrift für öffentliche Gesundheitspflege.** Braunschweig. Chem. **1**, 1869+
- Dinglers polytechnisches Journal.** Stuttgart. Chem. **7**, 1822—**238**, 1880 [**13-26**, **30**, **33**, **38-41**, **61**, **227-229** w.] Eng. **251**, 1884+
- Diplomatic Review (Free Press).** London. G. S. **3**, 1856—**25**, 1877.
- École des Ponts et Chaussées.** Collection de Dessins distribués aux élèves. Paris. Eng. **1**, 1875+
- Economic Journal.** London. G. S. **1**, 1891+
- Economic Review.** London. G. S. **1**, 1891+
- Economist, Weekly Commercial Times, Bankers' Gazette and Railway Monitor.** London. G. S. **45**, 1887+
- Économiste (L') français.** Paris. G. S. **17**, 1887+
- Edinburgh New Philosophical Journal.** Gen. **18**, 1855—(New series) **19**, 1864||
- Edinburgh Review or Critical Journal.** London. G. S. **167**, 1888+
- Educational Review.** New York. Gen. **1**, 1891+
- Electric Power.** New York. Phys. **1**, 1889+
- Electrical Engineer.** London. Phys. (New series) **1**, 1888+
- Electrical Engineer.** New York. Phys. **2**, 1883+
- Electrical Review.** London. Phys. **1**, 1872-3+
- Electrical Review.** New York. Phys. **1**, 1882+
- Electrical World.** New York. Phys. **3**, 1884+
- Electrician.** London. Phys. **1**, 1878+ [**5**, **8** w.]
- Électricien (L').** Paris. Phys. **1**, 1881+
- Electricity.** New York. Phys. **4**, 1893+
- Elektrotechnische Zeitschrift.** Berlin. Phys. **1**, 1880+
- Elisha Mitchell Scientific Society.** Journal. Raleigh. Gen. **7**, 1890+
- Elsners Chemisch-technische Mittheilungen.** See Chemisch-technische Mittheilungen der neuesten Zeit.
- Engineer.** London. Eng. **1**, 1856+
- Engineering.** London. Eng. **1**, 1866+
- Engineering and Mining Journal.** New York. Mg. **8**, 1869+ Eng. **35**, 1883—**38**, 1884; **47**, 1889+
- Engineering Magazine.** New York. Eng. **1**, 1891+
- Engineering Mechanics.** Philadelphia. Eng. **10**, 1888+
- Engineering News and American Railway Journal.** New York. Eng. **16**, 1886+
- Engineering Record.** New York. Eng. Chem. **1**, 1877-8+
- Engineering Society of Lehigh University.** Journal. Bethlehem. Eng. **1**, 1885-6—**5**, 1889-90||
- Engineering Society of the School of Practical Science, Toronto.** Papers. Eng. **1**, 1885-6+
- Engineers' Club of Philadelphia.** Proceedings. Eng. **3**, 1882+
- Engineers' Society of Western Pennsylvania.** Proceedings. Pittsburg. Eng. **1**, 1880-2; **4**, 1888+
- English Historical Review.** London. G. S. **1**, 1886+
- Epidemiological Society of London.** Transactions. Biol. **1**, 1863+

**Erdmann's Journal.** See *Journal für technische und ökonomische Chemie*; and *Journal für praktische Chemie*.

**Essex Institute.** Bulletin. Salem. Gen. **1**, 1869+

**Essex Institute.** Proceedings. Salem. Gen. **1**, 1848-56—**6**, 1868||

**Ethical Record.** Philadelphia. G. S. **1**, 1888—**3**, 1890||

**Experiment Station Record.** Washington. Chem. **1**, 1889-90+

**Färber-Zeitung.** Berlin. Chem. **1**, 1889-90+

**Financial Reform Almanack.** London. G. S. 1874; 1878-1884; 1891+

**Financial Register of the United States.** Philadelphia. G. S. **1**, 1837-8—**2**, 1838||

**Formulaire de l'Électricien.** Hospitalier. Paris. Phys. **2**, 1884; **6**, 1888+

**Fortnightly Review.** London. G. S. **7** (new series **1**), 1867+

**Fortschritte der Elektrotechnik.** Berlin. Phys. **1**, 1887+

**Fortschritte (Die) der Physik.** Berlin. Phys. **1**, 1845+

**Forum.** New York. G. S. **1**, 1886+

**Franklin Institute.** Journal. Philadelphia. Eng. **1**, 1826+ [**3**, **4** w.]

**Free Trade Advocate and Journal of Political Economy.** Philadelphia. G. S. **1-2**, 1829||

**Freie Vereinigung bayerischer Vertreter der angewandten Chemie.** Bericht über die Versammlung. Wiesbaden. Chem. **4**, 1885; **6**, 1887+

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**Gazette des architectes et du bâtiment.** Paris, Arch. **1**, 1863—**7**, 1869-71.

**Gazette des Beaux-Arts.** Paris. Arch. (3) **9**, 1893+

**Gazzetta chimica italiana.** Palermo. Chem. **1**, 1871+

**Gehlen's Journal.** See *Journal für die Chemie und Physik*.

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**Génie (Le) Civil.** Paris. Eng. **10**, 1886-7+

**Geological Society of America.** Bulletin. Rochester. Geol. **1**, 1890+

**Geological Society of London.** Quarterly Journal. Geol. **1**, 1845-9, 1853; **17**, 1861—**35**, 1879 [**18**, **21**, **23**, **31** w.]

**Gesundheits-Ingenieur.** Berlin; München. Chem. **1**, 1878+

**Gilbert's Annalen.** See *Annalen der Physik*.

**Glaser's Annalen.** See *Annalen für Gewerbe und Bauwesen*.

**Good Health.** Boston. Chem. **1**, 1869-70—**4**, 1872||

**Good Roads.** New York. Eng. **1**, 1892+

**Harper's New Monthly Magazine.** New York. G. S. 1893+

**Harper's Weekly.** New York. G. S. **32**, 1888+

**Hazell's Annual.** London. G. S. **2**, 1887+

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**Hygienische Rundschau.** Berlin. Biol. **1**, 1891+

**Illinois Society of Engineers and Surveyors.** Report of the annual meeting. Eng. **1**, 1888+

**Illustrated Electrical Review.** See *Electrical Review*, New York.

**Imperial and Asiatic Quarterly Review.** See *Asiatic Quarterly Review*.

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 Institution of Naval Architects. Transactions. London. Eng. **1**, 1860--**9**, 1868; **18**, 1877+  
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 Interstate Commerce Reports. Rochester. Eng. **1**, 1887-8+  
 Inventive Age and Industrial Record. Washington. Eng. **3**, 1891+  
 Investors' Review. London. G. S. **1**, 1892+  
 Investors' Supplement of the Commercial & Financial Chronicle. New York. G. S. **56**, 1893+  
 Iron. London. Mg. **21**, 1883+ Eng. **29**, 1887+  
 Iron Age. New York. Mg. **37**, 1886+  
 Iron and Steel Institute. Journal. London. Mg. 1874+  
 Irrigation Age. Denver. Eng. **2**, 1891-2+
- Jahrbuch** der Astronomie und Geophysik. Leipzig. Eng. **1**, 1890+  
**Jahrbuch** der Chemie. Frankfurt. Chem. **1**, 1891+  
**Jahrbuch** der Chemie und Physik. See Journal für Chemie und Physik.  
**Jahrbuch** für Elektrotechnik. Halle. Phys. **1**, 1887-**2**, 1888-9||  
**Jahrbuch** für Photographie und Reproduktionstechnik. Halle. Phys. **1**, 1887+  
**Jahrbücher** für Nationalökonomie und Statistik. Jena. G. S. **48** (Neue Folge **14**), 1887+  
**Jahresbericht** der k. chemischen Centralstelle für öffentliche Gesundheitspflege zu Dresden. Chem. **1**, 1872-**13**, 1884.  
**Jahresbericht** über die Fortschritte auf dem Gebiete der reinen Chemie. Staedel. Tübingen. Chem. **1**, 1873 **9**, 1881||  
**Jahresbericht** über die Fortschritte auf dem Gesamtgebiete der Agrikultur-Chemie. Berlin. Chem. **1**, 1858-9+ [**26-28** w.]  
**Jahresbericht** über die Fortschritte der Chemie und verwandter Theile anderer Wissenschaften. Liebig und Kopp; Fittica. Giesen; Braunschweig. Chem. **1**, 1847-8+  
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**Johns Hopkins University Studies in Historical and Political Science.** Baltimore. G. S. **1**, 1883+

**Journal de mathématiques élémentaires.** Paris. Gen. **17**, 1892-3+

**Journal de Physique théorique et appliquée.** Paris. Phys. **6**, 1877+

**Journal des Économistes.** Paris. G. S. (3) **1**, 1876—(4) **16**, 1881; (4) **41**, 1888+

**Journal für Chemie und Physik.** Schweigger. Nürnberg; Halle. Chem. **1**, 1811—**66**, 1832. [2, 9-30, 41, 42, 45-51 w.]

**Journal für die Chemie und Physik.** Gehlen. Berlin. Chem. **1**, 1806—**8**, 1808 [4, 7 w.]

**Journal für Gasbeleuchtung.** See Schilling's **Journal für Gasbeleuchtung und Wasserversorgung.**

**Journal für praktische Chemie.** Leipzig. Chem. **1**, 1834+

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**Journal of Analytical and Applied Chemistry.** Easton. Chem. **1**, 1887+

**Journal of Anatomy and Physiology.** London and Cambridge. Biol. **1**, 1867—**11**, 1877.

**Journal of Morphology.** Boston. Biol. **1**, 1887+

**Journal of Mycology.** Washington. Biol. **6**, 1890+

**Journal of Physiology.** Cambridge. Biol. **1**, 1878-9+

**Journal of Political Economy.** Chicago. G. S. **1**, 1892-3+

**Journal of Science and the Arts.** London. Gen. **1**, 1817—**5**, 1819.

**Journal of Social Science.** Boston. G. S. **1**, 1869+

**Journal of Speculative Philosophy.** St. Louis. G. S. **1**, 1867—**8**, 1874.

**Journal of the College of Science, Imperial University, Japan.** Tokyo. Gen. **1**, 1886+

**Journal of the United States Artillery.** Fort Monroe. Eng. **1**, 1892+

**Kansas State Historical Society. Transactions.** Topeka. G. S. **3**, 1883-5+

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**Kastner's Archiv.** See **Archiv für Chemie und Meteorologie.**

**ΚΟΣΜΟΣ Les Mondes.** Paris. Chem. **1**, 1863—**47**, 1878.

**Laboratory.** London. Chem. **1**, 1867||

**Lancet.** London. Biol. 1892+

**Landwirtschaftlichen (Die) Versuchs-Stationen.** Berlin. Chem. **12**, 1869-40, 1892 [13, 24, 26-29, 33-39 w.]

**Leather Manufacturer.** New York. Chem. **3**, 1893+

**Lehigh Quarterly.** South Bethlehem. Eng. **1**, 1891+

**Lend a Hand.** Boston. G. S. **6**, 1891+

**Liberty.** Boston; New York. G. S. **6**, 1888+

**Library Journal.** New York. Gen. **13**, 1888+

**Liebig's (Justus) Annalen der Chemie.** Leipzig. Chem. **1**, 1832+

**Littell's Living Age.** Boston. G. S. **176** ((5) **61**), 1888+

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**Locomotive.** Hartford. Eng. (New series) **4**, 1883+

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**Magazin** für Pharmacie und die dahin einschlagenden Wissenschaften. Heidelberg. Chem. 1, 1823—108, 1850||

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Manufacturer and Builder. New York. Eng. 22, 1890+

Massachusetts Horticultural Society. Transactions. Boston. Gen. 1869+

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Master Car-Builders' Association. Report of the Proceedings at the Annual Convention. New York. Eng. 1, 1867+ [7, 10 w.]

Matériaux et Documents d'Architecture et de Sculpture Raguenet. Paris. Arch. 1, 1871+

Mathematical Monthly. Cambridge. Gen. 1, 1858—9—3, 1860—1||

Mathematische Annalen. Leipzig. Gen. 35, 1890+

Mechanical News. New York. Eng. 15, 1886+

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Monatshefte für Chemie und verwandte Theile anderer Wissenschaften. Wien. Chem. 6, 1885+

Mondes (Les). See ΚΟΣΜΟΣ Les Mondes.

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- National Association of Wool Manufacturers. Bulletin. Boston. Eng. **1**, 1869+ G. S. **6**, 1876+
- National Conference of Charities and Correction. Proceedings. Boston. G. S. **2**, 1875+
- National Electric Light Association. Convention. Phys. **1**, 1885+
- National Geographic Magazine. Washington. Geol. **1**, 1889+
- National Prison Association. Proceedings of the Annual Congress. G. S. 1886+
- National Telephone Exchange Association. Meeting. Phys. **1**, 1880—**10**, 1888.
- National Review. London. G. S. **12**, 1888-9; **20**, 1893+
- Nature. London. Biol. Phys. **1**, 1869+ Chem. **1**, 1869 **34**, 1886. M. C. R. **8**, 1873—**30**, 1884.
- Natuur- en Scheikundig Archief. Mulder. Rotterdam; Leyden. Chem. **1**, 1833—**5**, 1837.
- Neue Zeitschrift für Rubenzucker-Industrie. Scheibler. Berlin. Chem. **10**, 1883—**25**, 1890.
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- New England Cotton Manufacturers' Association. Proceedings. Boston. Eng. **1**, 1866+
- New England Road Masters' Association. Proceedings of the Annual Meeting. Eng. **1**, 1883+
- New England Water Works Association. Journal. Eng. **1**, 1886-7+
- New England Water Works Association. Transactions. Boston. Chem. 1882—1885|| Eng. 1883—1885||
- New Era. London. G. S. **1**, 1892+
- New Nation. Boston. G. S. **1**, 1891+
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- New York Mathematical Society. Bulletin. Gen. **1**, 1891-2+
- Niederrheinischer Verein für öffentliche Gesundheitspflege. Correspondenz-Blatt Köln. Chem. **1**, 1872—**10**, 1881||
- Nineteenth Century. London. G. S. **1**, 1877+
- North American Review. Boston; New York. G. S. **8**, 1820—**15**, 1822; **132**, 1881+ [133 136, 144 146 w.]
- Northwestern Lumberman. Chicago. Arch. **21**, 1893+
- Oesterreichische** Eisenbahn-Zeitung. Wien. Eng. **13**, 1890+
- Oesterreichische Zeitschrift für Berg- und Hüttenwesen. Wien. Mg. **19**, 1871—**21**, 1873; **33**, 1885+
- Oesterreichischer Ingenieur- und Architekten-Verein. Wochenschrift. Wien. Eng. **15**, 1890—**16**, 1891||
- Oesterreichischer Ingenieur und Architekten-Verein. Zeitschrift. Wien. Eng. **42**, 1890+
- Official Gazette of the United States Patent Office. Washington. Eng. **1**, 1872+
- Ohio Society of Surveyors and Civil Engineers. Annual Report Eng. **1**, 1880+
- Organ für die Fortschritte des Eisenbahnwesens. Wiesbaden. Eng. **41** (N. F. **23**), 1886+



- Revue de chimie industrielle. Paris. Chem. **2**, 1891+  
 Revue encyclopédique. Paris. Gen. **5**, 1893+  
 Revue Générale de l'Architecture et des Travaux Publics. Paris. Arch. **1**, 1838—(4) **14**, 1887||  
 Revue générale des chemins de fer. Paris. Eng. **1**, 1878+  
 Revue historique. Paris. G. S. **36**, 1888+  
 Revue industrielle. Paris. Eng. **18**, 1887+  
 Revue internationale de l'Électricité. Paris. Phys. **1**, 1885—**11**, 1890||  
 Revue politique et littéraire. Revue bleue. Paris. G. S. **2**, 1872 **7**, 1874; **49**, 1892+  
 Revue scientifique de la France et de l'étranger. Paris. Chem. (2) **1**, 1871—**8**, 1875.  
 Revue scientifique et industrielle. Quesneville. Paris. Chem. **16**, 1844—(3) **8**, 1850.  
 Revue universelle des Mines, de la Métallurgie, etc. Liège. Mg. **33**, 1873—**38**, 1875; (2) **19**, 1886+ Eng. (2) **21**, 1887+  
 Rivista d'Igiene e Sanità pubblica. Roma. Biol. **3**, 1892+  
 Roadmasters' Association of America. Proceedings of the Annual Convention. Eng. **3**, 1885 **7**, 1889.  
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 Royal Institute of British Architects. Journal of Proceedings. London Arch. (New series) **2**, 1885+  
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 Royal Society of London. Philosophical Transactions. (A.) Phys. **178**, 1857—  
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 Sanitary Institute. Transactions. London. Chem. **1**, 1879+  
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 Scherer's Journal. See Allgemeines Journal der Chemie.  
 Schilling's Journal für Gasbeleuchtung und Wasserversorgung. München Chem. **11**, 1868—**32**, 1889 [13—16, 19, 30, 31 w.] Eng. **34**, 1891+  
 Schilling's Journal. Columbia College. Mg. **1**, 1879—80+  
 Journal für Chemie und Physik. **1**, 1883+ Chem. **1**, 1883 **9**, 1887.  
 Schilling's Journal. New York. Eng. **2**, 1846—7; **3**, 1847—8; **14**, —5, 1861; **17**, 1867—8; **56**, 1887+  
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- Semaine (La) des Constructeurs.** Paris. Arch. **9**, 1885+  
**Sewanee Review.** Sewanee, Tenn. Gen. **1**, 1892-3+  
**Sibley Journal of Engineering.** Cornell University. Eng. **4**, 1892-3+  
**Silliman's Journal.** See American Journal of Science.  
**Sociedad Científica "Antonio Alzate."** Memorias y Revista. México. Gen. **1**, 1887+  
**Société centrale des Architectes français.** Bulletin mensuel. Paris. Arch. (4) **1**, 1874+  
**Société chimique de Paris.** Bulletin. Chem. **1**, 1857-60+  
**Société de l'Industrie minérale.** Bulletin. Saint-Étienne. Mg. (3) **1**, 1887+  
**Société de l'Industrie minérale.** Comptes-rendus mensuels des réunions. Saint-Étienne. Mg. 1890+  
**Société des Ingénieurs Civils.** Mémoires et Compte rendu des travaux. Paris. Eng. 1871+  
**Société industrielle de Mulhouse.** Bulletin. Chem. **49**, 1879+ [51 w. Eng. **54**, 1884+  
**Société industrielle de Rouen.** Bulletin. Chem. **10**, 1882+ [14-16 w.]  
**Society of Arts.** Journal. London. Phys. **8**, 1859-60+  
**Society of Chemical Industry.** Journal. Manchester: London. Chem. **1**, 1882+  
**Society of Dyers and Colourists.** Journal. Bradford. Chem. **1**, 1885+  
**Spectator.** London. G. S. **60**, 1887+  
**Stahl und Eisen.** Düsseldorf. Mg. **1**, 1881+  
**State School of Mines Scientific Quarterly.** Golden, Colo. Mg. **1**, 1892-3+  
**Statesman's Year-Book.** London. G. S. **6**, 1869+ (incomplete.)  
**Street Railway Association of the State of New York.** Report of the Annual Meeting. Eng. **1**, 1882-3+  
**Street Railway Gazette.** Chicago. Eng. **1**, 1886+  
**Street Railway Journal.** New York. Eng. **7**, 1891+  
**Synopsis of the decisions of the Treasury Department and Board of U. S. General Appraisers on the construction of the tariff, navigation, and other laws.** Washington. Gen. **1**, 1892+
- Technic.** University of Michigan. Eng. **2**, 1889+  
**Technical Society of the Pacific Coast.** Transactions. San Francisco. Eng. **1**, 1884+  
**Technical World.** London. Gen. **1**, 1893+  
**Techniker (Der).** New York. Eng. **7**, 1884-5+  
**Technograph.** University of Illinois. Eng. **1**, 1885-7+  
**Technolog (Der).** Jena. Chem. **1**, 1877||  
**Technology Architectural Review.** Boston. Arch. **1**, 1887-8-3, 1890||  
 See Architectural Review.  
**Technology Quarterly and Proceedings of the Society of Arts.** Massachusetts Institute of Technology. Gen. Eng. Mg. Chem. Phys. **1**, 1887 8+  
**Teinturier (Le) pratique.** Paris. Chem. **12**, 1883; **16**, 1887+  
**Telegraphic Journal and Electrical Review.** See Electrical Review, London.  
**Textile Colorist.** Philadelphia. Chem. **7**, 1885+

- Textile Colourist. Manchester. Chem. **1**, 1876—**4**, 1877||  
 Textile Manufacturer. Manchester. Eng. **14**, 1888+  
 Textile Record of America. Philadelphia. Eng. Chem. **7**, 1886+  
 Thonindustrie-Zeitung. Berlin. Mg. **1**, 1877+  
 Times Weekly Edition. London. G. S. **12**, 1888+  
 Toynbee Record. London. G. S. **1**, 1888—9+  
 Transit. State University of Iowa. Eng. **1**, 1890+  
 Tribune Almanac. New York. G. S. 1838—1868; 1874+  
 Twentieth Century. New York. G. S. **9**, 1892+
- United States** Association of Charcoal Iron Workers. Journal. Philadelphia. Mg. **1**, 1880+  
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 University Magazine. New York. Gen. **4**, 1891+
- Van Nostrand's** Engineering Magazine. New York. Eng. **1**, 1869—**35**, 1886||  
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 Verein für die Rübenzucker-Industrie des Deutschen Reichs. Zeitschrift. Berlin. Chem. **41**, 1891+  
 Verein für öffentliche Gesundheitspflege in Magdeburg. Verhandlungen und Mittheilungen. Chem. **1**, 1872—**3**—**15**, 1886.  
 Veröffentlichungen des kaiserlichen Gesundheitsamtes. Berlin. Biol. **13**, 1880+  
 Vierteljahresschrift für praktische Pharmacie. Wittstein. München. Chem. **1**, 1852—**22**, 1873||
- Wagner's** Jahres-Bericht. See Jahres-Bericht über die Leistungen der chemischen Technologie.  
 Week. Toronto. G. S. **10**, 1892—3+  
 Westminster Review. London. G. S. **129**, 1888+  
 Wider die Nahrungsfälscher! Hannover. Chem. **1**, 1878—**4**, 1881||  
 Wiedemann's Annalen. See Annalen der Physik und Chemie.  
 Wiener Bauindustrie-Zeitung. Arch. **9**, 1891—2+  
 Wisconsin Academy of Sciences, Arts, and Letters. Transactions. Madison. Gen. **1**, 1870—2+  
 World's Fair Electrical Engineering. Chicago. Phys. **1**, 1893+
- Yale** Review. Boston. G. S. **1**, 1892+  
 Year-Book of Facts in Science and the Useful Arts. London. Gen. 1839—1879—80. [1854, 1856 w.]  
 Year-Book of Science. Bonney. London. Phys. 1891+
- Zeitschrift** für analytische Chemie. Fresenius. Wiesbaden. Chem. **1**, 1862+  
 Zeitschrift für angewandte Chemie. Berlin. Chem. **1**, 1888+  
 Zeitschrift für anorganische Chemie. Hamburg. Chem. **1**, 1892+  
 Zeitschrift für Bauwesen. Berlin. Eng. **39**, 1889+

- Zeitschrift für Biologie. München. Chem. 1, 1865-19, 1883. Biol. 20, 1884+
- Zeitschrift für Chemie. Göttingen; Leipzig. Chem. 1, 1858-14, 1871||
- Zeitschrift für das Berg-, Hütten- und Salinenwesen. Berlin. Mg. 1 1854+
- Zeitschrift für das chemische Grossgewerbe. Berlin. Chem. 1, 1876-5, 1880||
- Zeitschrift für das gesammte Local- & Strassenbahn-Wesen. Wiesbaden. Eng. 1, 1882+
- Zeitschrift für den physikalischen und chemischen Unterricht. Berlin. Phys. 1, 1887-8+
- Zeitschrift für die chemische Industrie. Berlin. Chem. 1-2, 1887||
- Zeitschrift für Elektrotechnik. Wien. Phys. 1, 1883+
- Zeitschrift für Fleisch- und Milchhygiene. Berlin. Biol. 1, 1891+
- Zeitschrift für Hygiene und Infectiouskrankheiten. Leipzig. Biol. 1, 1886+
- Zeitschrift für Instrumentenkunde. Berlin. Phys. 1, 1881+
- Zeitschrift für physikalische Chemie, Stöchiometrie und Verwandtschaftslehre. Leipzig. Chem. 1, 1887+
- Zeitschrift für physiologische Chemie. Strassburg. Chem. 16, 1892+
- Zeitschrift für Transportwesen und Strassenbau. Berlin. Eng. 2, 1885+
- Zeitschrift für wissenschaftliche Mikroskopie. Braunschweig. Biol. 1893+

## APPENDIX.

### PERIODICALS CURRENTLY RECEIVED BUT NOT BOUND FOR REFERENCE.

- A B C Pathfinder Railway Guide. Boston. Gen.
- Allgemeine Bibliographie. Leipzig. Gen.
- Altruist. St. Louis. G. S.
- American Advocate of Peace. Boston. G. S.
- American Artisan. New York. Eng.
- American Economist. New York. Gen.
- American History Leaflets: Colonial and Constitutional. New York. G. S.
- American Monthly Microscopical Journal. Washington. Biol.
- Art Amateur. New York. L. D.
- Art Interchange. New York. L. D.
- Black Diamond. Chicago. G. S.
- Bolletino di Notizie sul Credito e la Previdenza. Roma. Gen.
- Boston Commonwealth. G. S.
- Bulletin de la librairie française. Paris. Gen.
- Bulletin of the Boston Public Library. Gen.
- Carpenter. Philadelphia. G. S.
- Carpet and Upholstery Trade Review. New York. L. D.
- Civil Service Chronicle. Indianapolis. G. S.
- Courrier des États-Unis. New York. G. S.
- Dawn. Boston. G. S.

Freedom. London. G. S.  
 General Wood Workers Journal. Brooklyn. G. S.  
 Good Government. Washington and New York. G. S.  
 Granite Cutters' Journal. Concord. G. S.  
 Harvard University Bulletin. Cambridge. Gen.  
 Illustrated News of the World. New York. G. S.  
 Industry. San Francisco. Eng.  
 Johns Hopkins University Circulars. Baltimore. G. S.  
 Justice. London. G. S.  
 Knights of Labor. Journal. Philadelphia. G. S.  
 Kölnische Zeitung. Wochen-Ausgabe. G. S.  
 Labour Prophet. Manchester. G. S.  
 Land and Labor. London. G. S.  
 Library Bulletin of Cornell University. Ithaca. Gen.  
 Ligue française de l'Enseignement. Bulletin mensuel. Paris. Gen.  
 List of Parliamentary Papers. London. Gen.  
 Literary News. New York. G. S.  
 Manifesto. Canterbury, N. H. G. S.  
 Manufacturers' Review and Industrial Record. New York. L. D.  
 National Economist. Washington. G. S.  
 New England Magazine. Boston. G. S.  
 New England Meteorological Society. Bulletin. Boston. Eng.  
 Oil, Paint and Drug Reporter. New York. Chem.  
 Princeton College Bulletin. G. S.  
 Publishers' Circular. London. Gen.  
 Publishers' Weekly. New York. Gen.  
 Quarrymen's Journal. Quincy. G. S.  
 Review of Reviews. New York. G. S.  
 Revue du Christianisme pratique. Vals. G. S.  
 Seed-time. London. G. S.  
 Social Economist. New York. G. S.  
 Technical Index. New York. Eng.  
 Travellers Record. Hartford. Gen.  
 Trefoil. Stamford. Eng.  
 United Ireland. Dublin. G. S.  
 University Extension Bulletin. Albany. Gen.  
 University Record. Ann Arbor. Gen.  
 Woman's Journal. Boston. G. S.  
 Worcester Commercial and Board of Trade Bulletin. Gen.



# I.

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- ta mathematica. Stockholm. Gen, 19, 1895 +  
e of Steel. St. Louis. Eng. 66, 1889-73,  
1893.
- ronautics. New York. Eng. 1, 1893-4 11  
erican Federationist. New York. G. S.  
1, 1894 +
- erican Institute of Architects.  
Proceedings of the Annual Convention.  
Arch. 1, 1867- 9, 1873; 21, 1887 +
- erican Mathematical Society. Bulletin.  
New York. Gen, 1, 1891-2 +
- erican Society of Irrigation Engineers.  
Annual. Denver. Eng. 1, 1892-3 +
- erican Society of Naval Engineers.  
Journal. Washington. Eng. 6, 1894 +
- atomischer Anzeiger. Jena. Biol. 10, 1894 +
- nals of Mathematics. Charlottesville.  
Gen. 7, 1893 +
- ual Register. London. G.S. 1892 +
- hives des sciences physiques et naturelles.  
Gen. (2) 43, 1872 - 54, 1875. Genève.
- t Journal. London Arch. (N.S.) 1895 +
- sociation of Ontario Land Surveyors.  
Proceedings. Toronto. Eng. 1, 1893 +
- tronomical Register. London Phys. 16, 1878 -  
24, 1886.
- tronomische Gesellschaft.  
Vierteljahrsschrift. Leipzig. Phys.  
10, 1875 - 18, 1883.
- trophysical Journal. Chicago. Phys. 1, 1895 +
- rgen Museum. Aarsberetning. Biol. 1886-1891  
11 Aarbog. 1892 +
- ick. Chicago. Eng. 1, 1894 +
- lletin de l'Office de Travail. Paris.  
G.S. 1, 1894 +
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the 1990s, the number of people in the world who are under 15 years of age has increased from 1.1 billion to 1.5 billion, and the number of people aged 65 and over has increased from 0.2 billion to 0.5 billion (United Nations, 1999).

There is a growing awareness of the need to address the needs of the young and the old. The United Nations has set out a series of goals for the 21st century, including the goal of 'improving the lives of the world's poor' (United Nations, 1999). The World Bank has also set out a series of goals for the 21st century, including the goal of 'reducing poverty and improving living standards' (World Bank, 1999).

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